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PCT/KR2004/001121

PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

REC'D 03 OCT 2005

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Applicant's or agent's file reference 2004OC-709KR	FOR FURTHER ACTION		See Form PCT/IPEA/416
International application No. PCT/KR2004/001121	International filing date (day/month/year) 13 MAY 2004 (13.05.2004)	Priority date (day/month/year) 16 MAY 2003 (16.05.2003)	
International Patent Classification (IPC) or national classification and IPC IPC7 E01D 2/02			

Applicant

BNG CONSULTANT CO., LTD. et al

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 4 sheets, including this cover sheet.
3. This report is also accompanied by ANNEXES, comprising:
 - a. (sent to the applicant and to the International Bureau) a total of _____ sheets, as follows:
 - sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).
 - sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.
 - b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) _____ containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box relating to Sequence Listing (see Section 802 of the Administrative Instructions).

4. This report contains indications relating to the following items:

<input checked="" type="checkbox"/>	Box No. I Basis of the report
<input type="checkbox"/>	Box No. II Priority
<input type="checkbox"/>	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
<input type="checkbox"/>	Box No. IV Lack of unity of invention
<input checked="" type="checkbox"/>	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
<input type="checkbox"/>	Box No. VI Certain documents cited
<input type="checkbox"/>	Box No. VII Certain defects in the international application
<input checked="" type="checkbox"/>	Box No. VIII Certain observations on the international application

Date of submission of the demand

08 MARCH 2005 (08.03.2005)

Date of completion of this report

05 SEPTEMBER 2005 (05.09.2005)

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/KR2004/001121

Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

This report is based on translations from the original language into the following language _____ which is the language of a translation furnished for the purposes of:

international search (under Rules 12.3 and 23.1(b))
 publication of the international application (under Rule 12.4)
 international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):

the international application as originally filed/furnished

the description:
 pages _____ received by this Authority on _____ as originally filed/furnished
 pages* _____ received by this Authority on _____

the claims:
 pages _____ as originally filed/furnished
 pages* _____ received by this Authority on _____ as amended (together with any statement) under Article 19
 pages* _____ received by this Authority on _____
 pages* _____ received by this Authority on _____

the drawings:
 pages _____ received by this Authority on _____ as originally filed/furnished
 pages* _____ received by this Authority on _____
 pages* _____ received by this Authority on _____

the sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.

3. The amendments have resulted in the cancellation of:

the description, pages _____
 the claims, Nos. _____
 the drawings, sheets _____
 the sequence listing (specify) : _____
 any table(s) related to sequence listing (specify) : _____

4. This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

the description, pages _____
 the claims, Nos. _____
 the drawings, sheets _____
 the sequence listing (specify) : _____
 any table(s) related to sequence listing (specify) : _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1 - 4	YES
	Claims	NONE	
Inventive step (IS)	Claims	1 - 4	YES
	Claims	NONE	
Industrial applicability (IA)	Claims	1 - 4	YES
	Claims	NONE	

2. Citations and explanations (Rule 70.7)

1. Novelty

The documents mentioned in the International Search Report show the prior art relevant to the subject matter of the present application. The present invention is different from the prior art in that, according to the present invention, the second tensile force is applied while the precast slabs are being placed on a PSC girder, whereas, according to the prior art, the second tensile force is applied after the in-situ slabs are placed on a PSC girder.

Therefore, claims 1 and 2 are considered to be novel.

2. Inventive Step

It would not be obvious to a person skilled in the art to derive said feature of the present invention--the application of the second tensile force while the precast slabs are being placed on a PSC girder--from the prior art. In addition, said feature produces the effects of preventing the loss of prestress due to the load of the slabs and relieving the excessive compression force generated on the girder during the construction of a bridge.

Therefore, claims 1 and 2 are considered to involve an inventive step.

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Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Claims 1 and 2 do not meet the requirement following from Article 6 PCT taken in combination with Rule 6.3(b) PCT that any independent claim must contain all the technical features essential to the definition of the invention.

In the present application, the second tendons (3) are gradually tensed as the load of the precast slabs which are arranged on top of the surface of the PSC girder is increased, but it is not clearly described in claims 1 and 2.

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